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ABSTRACT

The method allows to register user in a public-key infrastruc-
ture based on credentials, including biometric data, such as
data related to a fingerprint, presented to an authority (100)
5   of the public-key infrastructure, comprising the steps of
connecting a token (10), comprising a processor (2), an
interface device (3) and a memory device (5), containing a
private-key (51) and a public-key (52) for the user of the
token (10) and a private-key (53) issued by the authority
10 (100); reading biometric data (58) of the user, such as data
derived from a fingerprint, by a biometric input device (1;
31); signing the biometric data (58) with the private-key (53)
issued by the authority (100); sending a certification request,
containing the public-key (52), signed biometric data (58) and
15 additional credentials of the user, to the authority (100);
verifying and registering the received data by the authority
(100); storing the biometric data (58) in a database (104);
returning a corresponding certificate (520) and storing the
certificate (520) in the token. After registration the token is
20 a secure element of the public-key infrastructure allowing to
encrypt messages and securely sign messages, with digital
signatures, on which a third party can rely on. In case of
fraud biometric data taken from an unauthorised user can be
stored in a database and later legally used as evidence.

25   (Fig. 1)